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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/306,111	05/06/1999	KENNETH JACOBS	GI-6069-74A	3040

7590 02/26/2002

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[REDACTED] EXAMINER

BRUSCA, JOHN S

ART UNIT	PAPER NUMBER
1631	17

DATE MAILED: 02/26/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/306,111	JACOBS ET AL.
	Examiner	Art Unit
	Brusca S John	1631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 04 January 2002.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-5,8 and 14-19 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-5,8 and 14-19 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

WILLIAM N. PHILLIPS
PATENT ANALYST

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Claim Objections

1. The objection to claims 7 and 8 in the Office action mailed 18 July 2001 is withdrawn in view of the amendment received 04 January 2002.

Priority

2. The Applicants have stated in the amendment received 04 January 2002 that priority to disclosure of claimed SEQ ID NO: 21 is properly claimed for parent provisional Application No. 60/087645, filed 02 June 1998. This statement is accepted and priority under 35 U.S.C. 119(e) is granted to 02 June 1998. The amendment received 04 January 2002 also corrected informalities in the first sentence of the specification to claim benefit of provisional applications.

Specification

The objection to the specification in the Office action mailed 18 June 2001 regarding the certificate of mailing statement on the first page of the specification is withdrawn in view of the amendment received 04 January 2002.

Claim Rejections - 35 USC 101 and 112

3. The rejection of claims 1-5, 8, and newly filed claims 14-19 under 35 U.S.C. 101 because the claimed invention lacks patentable utility is maintained for reasons of record in the Office action mailed 18 June 2001.
4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1-5, 8, and newly filed claims 14-19 are also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by either a specific and substantial utility or a well established utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.

6. Applicant's arguments filed 04 January 2002 have been fully considered but they are not persuasive.

The applicants have stated that the claimed subject matter is disclosed as having a degree of similarity to a sequence encoding kanadaptin, which is known in the prior art. The instant specification does not list the level of similarity or similarity parameters used to determine the level of similarity. Absent factual evidence, a percentage sequence similarity of less than 100 % is not deemed to reasonably support to one skilled in the art whether the biochemical activity of the claimed subject matter would be the same as that of such a similar known biomolecule. It is known for nucleic acids as well as proteins, for example, that even a single nucleotide or amino acid change or mutation can destroy the function of the biomolecule in many instances, albeit not in all cases. The effects of these changes are largely unpredictable as to which ones have a significant effect versus not. Therefore, the citation of sequence similarity results in an unpredictable and therefore unreliable correspondence between the claimed biomolecule and the indicated similar biomolecule of known function and therefore lacks support regarding utility and/or enablement.

7. Claims 1-5, 8, and newly filed claims 14-19 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the

application was filed, had possession of the claimed invention for reasons of record in the Office action mailed 18 June 2001. This is a written description rejection.

Applicant's arguments filed 04 January 2002 have been fully considered but they are not persuasive. The Applicants state that the claimed "isolated polynucleotide" is defined in the specification so as to exclude isolated genomic sequences, however a review of the pointed to location in the specification on page 257 fails to reveal such an exclusion. The claimed polynucleotides also continue to read on undescribed cDNA sequences found in complete cDNA sequences such as that disclosed by GenBank Version No. AK001486.1 (Isogai et al.), as discussed in the previous Office action. Whether or not the disclosed SEQ ID NO:21 is a complete cDNA from the cells used by the inventors, the claimed subject matter uses open "comprising" language that reads on undescribed portions of the sequence of GenBank Version No. AK001486.1.

Claim Rejections - 35 USC § 102

8. The rejection of claim 1 under 35 U.S.C. 102(a) as being anticipated by PCT publication number WO9845436 in the Office action mailed 18 June 2001 is withdrawn in view of the granting of an effective filing date of 02 June 1998 for the claimed invention, as discussed above.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Brusca whose telephone number is 703 308-4231. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward can be reached on 708 308-4323. The fax phone numbers for the organization where this application or proceeding is assigned are 703 746-5137 for regular communications and 703 746-5137 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308-4028.

John S. Brusca
John S. Brusca
Primary Examiner
Art Unit 1631

jsb
February 22, 2002